

**National Functional Guidelines Report #03**

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

***Data Review Reports***

Blanks

Blanks	BNA
BLB8	The following semivolatile samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F2B13, F2B21
	<b>Benzaldehyde</b> F2B13, F2B21
	<b>Acetophenone</b> F2B21

## National Functional Guidelines Report #03

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

### *Data Review Reports*

Continuing Calibration Verification

Continuing Calibration Verification	BNA
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F2A21, F2A23, F2A55, F2A61, F2B13, F2B21, SBLK98
	<b>Pentachlorophenol</b> SSTD020GW
	F2A21, F2A23, F2A55, F2A61, F2B13, F2B21, SBLK98

**National Functional Guidelines Report #03**

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

***Data Review Reports***

DMC/Surrogate

DMC/Surrogate	BNA
BDSS15	The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F2A27
	<b>4-Chloroaniline-d4</b> F2A27
	3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorocyclopentadiene

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**Data Review Reports**

Detection Limit

<b>Detection Limit</b>	<b>BNA</b>
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F2A23, F2A29, F2A31, F2A35, F2A41, F2A43, F2A47, F2A49, F2A51, F2A55, F2A57, F2A59, F2A61, F2B13, F2B21, SBLK98
	<b>Benzo(k)fluoranthene</b> F2A55, F2A57
	<b>Fluoranthene</b> F2A49, F2A59, F2A61
	<b>Anthracene</b> F2A57
	<b>Benzo(g,h,i)perylene</b> F2A55, F2A57
	<b>Pyrene</b> F2A59, F2A61
	<b>Indeno(1,2,3-cd)pyrene</b> F2A55, F2A57, F2A61
	<b>Benzo(a)anthracene</b> F2A55, F2A57
	<b>Chrysene</b> F2A55, F2A61
	<b>Phenanthrene</b> F2A55
	<b>Butylbenzylphthalate</b> F2A41
	<b>Carbazole</b> F2A57
	<b>Benzo(b)fluoranthene</b> F2A55, F2A59, F2A61
	<b>Benzaldehyde</b> F2A29, F2A31, F2A35, F2A43, F2A47, F2A49, F2A57, F2B13, F2B21, SBLK98
	<b>Benzo(a)pyrene</b> F2A55, F2A57
	<b>Dimethylphthalate</b> F2A31, F2A59
	<b>Acetophenone</b> F2A29, F2A31, F2A35, F2A43, F2A47, F2A49, F2A51, F2A57, F2B21, SBLK98
	<b>Bis(2-ethylhexyl)phthalate</b> F2A23, F2A35, F2A41, F2A47, F2A49, F2A51

**National Functional Guidelines Report #03**

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

***Data Review Reports***

## Detection Limit

Detection Limit	BNA_SIM
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. F2A21, F2A23, F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A47, F2A49, F2A51, F2A55, F2A55DL, F2A57, F2A57DL, F2A59, F2A61, F2B13, F2B13DL, F2B21 <b>Benzo(k)fluoranthene</b> F2A21, F2A27, F2A29, F2A35, F2A41, F2A47, F2A49, F2B21 <b>Fluoranthene</b> F2A23, F2A37, F2A51 <b>Anthracene</b> F2A57DL, F2A59 <b>Benzo(g,h,i)perylene</b> F2A57DL <b>Fluorene</b> F2A55, F2B13 <b>Naphthalene</b> F2A57, F2B13DL <b>Pyrene</b> F2A35, F2A51 <b>Indeno(1,2,3-cd)pyrene</b> F2A21, F2A41, F2A47, F2A51 <b>Acenaphthylene</b> F2A59 <b>Benzo(a)anthracene</b> F2A35, F2A41, F2A47 <b>Chrysene</b> F2A35, F2A51 <b>Phenanthrene</b> F2A31, F2A35, F2A41, F2A47, F2A61 <b>Acenaphthene</b> F2A55, F2B13 <b>Benzo(b)fluoranthene</b> F2A51 <b>Benzo(a)pyrene</b> F2A35, F2A41, F2A47, F2A51 <b>2-Methylnaphthalene</b> F2A57 <b>Dibenzo(a,h)anthracene</b> F2A55DL, F2A59, F2A61

**National Functional Guidelines Report #03**

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***Data Review Reports***

Initial Calibration

<b>Initial Calibration</b>		<b>BNA</b>
BC5	The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified. Use professional judgement to qualify non-detected compounds.	
	F2A21, F2A23, F2A25, F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A43, F2A47, F2A49, F2A51, F2A53, F2A55, F2A57, F2A59, F2A61, F2B13, F2B21, SBLK87, SBLK98	
	<b>Pentachlorophenol</b> SSTD020GL	
	F2A21, F2A23, F2A25, F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A43, F2A47, F2A49, F2A51, F2A53, F2A55, F2A57, F2A59, F2A61, F2B13, F2B21, SBLK87, SBLK98	

**National Functional Guidelines Report #03**

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***Data Review Reports***

Initial Calibration

Initial Calibration	BNA_SIM
BC5	The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified. Use professional judgement to qualify non-detected compounds.
	F2A55DL, F2A57, F2A57DL, F2B13, F2B13DL, F2B21, SBLK98
	<b>Pentachlorophenol</b> SSTD001GG
	F2A55DL, F2A57, F2A57DL, F2B13, F2B13DL, F2B21, SBLK98

**National Functional Guidelines Report #03**

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

***Data Review Reports***

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified. F2A23, F2A25, F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A43, F2A47, F2A49, F2A51, F2A53, F2A55, F2A57, F2A59, F2A61, F2B13, F2B21, SBLK87, SBLK98
	<b>13-Docosenamide, (Z)-</b> F2A41, F2A55
	<b>Hexylene glycol</b> F2B21
	<b>Hexadecanamide</b> F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A47, F2A53, F2A57, F2A59, F2B13, F2B21, SBLK87, SBLK98
	<b>Pentadecanamide, 15-bromo-</b> F2A41
	<b>Dodecanamide</b> F2A25, F2A29, F2A31, F2A37, F2A43, F2A57, F2B13
	<b>Heptafluorobutyric acid, hexadecyl ester</b> F2B13
	<b>Stigmast-4-en-3-one</b> F2A41
	<b>Tetradecanamide</b> F2A25, F2A27, F2A29, F2A35, F2A37, F2A41, F2A43, F2A49, F2A51, F2A53, F2A57, F2A59, F2B21
	<b>1-Octadecene</b> F2B21
	<b>9-Octadecenoic acid (Z)-, methyl ester</b> F2A47, F2A49
	<b>Olean-12-ene</b> F2A41
	<b>Sulfurous acid, 2-propyl tetradecyl ester</b> F2B21
	<b>Diisooctyl adipate</b> F2A23
	<b>E-15-Heptadecenal</b> F2B13
	<b>1-Eicosanol</b> F2A49
	<b>Decanamide-</b> F2A49
	<b>-gamma.-Sitosterol</b> F2B13
	<b>8-Pentadecanone</b> SBLK98
	<b>1,2-Benzenedicarboxylic acid, diundecyl ester</b> F2A47
	<b>9-Octadecenamide, (Z)-</b> F2A23, F2A25, F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A43, F2A47, F2A49, F2A51, F2A53, F2A55, F2A57, F2A59, F2A61, F2B13, F2B21, SBLK87, SBLK98
	<b>Cetene</b> F2B13, SBLK98
	<b>1-Octadecanol</b> F2A47
	<b>Octanoic acid</b> F2B21
	<b>Tetratriacontyl trifluoroacetate</b> SBLK98
	<b>n-Hexadecanoic acid</b> F2A47, F2A49

**National Functional Guidelines Report #03**

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

***Data Review Reports***

TIC

TIC	BNA
	Supraene F2A35
	Benzo[e]pyrene F2A55, F2A57
	9-Eicosene, (E)- F2B13
	16-Hentriaccontanone F2A31
	1-Docosene F2B13, SBLK98
	cis-9,10-Epoxyoctadecanamide F2A27
	Dicyclohexyl phthalate F2A41
	Hexadecanoic acid, methyl ester F2A49
	Dodecanoic acid F2A47, F2A53, F2B21
	Squalene F2A41, F2A47, F2A49
TIC	BNA
BTIC2	A library search indicates a match below 85% for a TIC compound in the semivolatile sample Detected compounds are qualified J. Nondetected compounds are not qualified. F2A21, F2A23, F2A25, F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A43, F2A47, F2A49, F2A51, F2A53, F2A55, F2A57, F2A59, F2A61, F2B13, F2B21, SBLK87, SBLK98
	Unknown 4-(1,3,3-Trimethyl-bicyclo[4.1.0]hept-2-yl)-but- F2A51
	Unknown 2-Propanone, 1-hydroxy- F2A27, F2A29, F2A35, F2A47, F2A51, F2B13
	Unknown 5H-1,4-Dioxepin, 2,3-dihydro-5-methyl- F2A29, F2A37, F2A51, F2A53
	Unknown 3-Pyridinecarboxylic acid, 1,2,5,6-tetrahydro-1- F2A27, F2A37, F2A43, F2B13
	Unknown Propanenitrile, 3,3'-thiobis- F2A35
	Unknown Benzene, 1-(1,1-dimethylethyl)-4-[2-methyl-2-pr F2A41
	Unknown Ethanol, 2,2'-oxybis- F2A27, F2A29, F2A35, F2A59
	Unknown 1H-3a,7-Methanoazulene, octahydro-1,9,9-trimethyl F2A35
	Unknown 1,2-Benzenedicarboxylic acid F2B13
	Unknown Phthalic acid, hept-3-yl octyl ester F2A47
	Unknown 2-Tridecanone SBLK98
	Unknown 1-Pyrrolidinocarboxaldehyde F2A59
	Unknown 11H-Benzo[a]fluorene F2A57
	Unknown 1,4-Methanocycloocta[d]pyridazine, 1,4,4a,5,6,9, F2A35

**National Functional Guidelines Report #03**

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

***Data Review Reports***

TIC

TIC	BNA
	Unknown 3-Hexen-2-one, 5-methyl- F2A25
	Unknown 1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,7b-octah F2A53
	Unknown 1-Nonadecene F2B13
	Unknown 4-Amino-1-naphthol F2A47
	Unknown 14-Heptacosanone F2A43
	Unknown 2-Nonadecanone F2A49
	Unknown 3-Pentenoic acid, 4-methyl- F2A43
	Unknown 2-Piperidinone, N-[4-bromo-n-butyl]- F2A49
	Unknown 7-Nonenamide F2A25, F2A29, F2A35, F2A37, F2A41, F2B21
	Unknown 2-Propyltetrahydropyran F2A49, F2A57
	Unknown alpha.-Bulnesene F2A49
	Unknown 1-Hexene-3,5-dione F2A49
	Unknown 5-Undecanone, 2-methyl- F2B21
	Unknown Lanosterol F2A61
	Unknown Spiro[4.5]dec-6-en-8-one, 1,7-dimethyl-4-(1-meth F2A49
	Unknown 1,3-Butadien-1-ol, acetate F2A43
	Unknown 2-Hexanone F2A27, F2A29, F2A35, F2A41, F2A47, F2A49
	Unknown Dodecanamide F2A25, F2A49, F2A51, SBLK98
	Unknown Benzamide, 4-iodo-N-(4-acetylaminophenyl)- F2A49
	Unknown 6-Isopropylquinoline SBLK98
	Unknown p-Phenylenediamine, N,N,N'-trimethyl-N'-pentaflu F2A47
	Unknown 1,2,3-Propanetriol, 1-acetate F2A41, F2A49, F2B21
	Unknown 4(1H)-Pyrimidinone, 5-methyl-2-(methylthio)- F2A41
	Unknown Stearic acid hydrazide F2A59
	Unknown (-)-Isolongifolol, methyl ether F2A49
	Unknown Hexylene glycol F2A59, F2B13, SBLK98
	Unknown 2,5-Dimethyl-4-hydroxy-3(2H)-furanone F2A25, F2A41

**National Functional Guidelines Report #03**

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**Data Review Reports**

TIC

TIC	BNA
	<b>Unknown Hexane, 2-bromo-</b> F2A25, F2A35, F2A41
	<b>Unknown Cyclohexanone, 2-(1-methyl-2-nitroethyl)-</b> F2A29
	<b>Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro-</b> F2A31, F2A35, F2A49
	<b>Unknown 2(3H)-Furanone, 5-butylidihydro-</b> F2A53
	<b>Unknown Hexadecanamide</b> F2A51, SBLK98
	<b>Unknown 13-Pentacosanone</b> SBLK98
	<b>Unknown Ethanone, 1-(3-ethyloxiranyl)-</b> F2A59
	<b>Unknown Butanedioic acid, 2,3-dihydroxy-, diethyl ester,</b> F2A47
	<b>Unknown Ketone</b> F2A49
	<b>Unknown 2,4-Pentanedione, 3-acetyl-</b> F2A23
	<b>Unknown 1-Propen-2-ol, acetate</b> F2A47, F2B21
	<b>Unknown Tricyclo[4.3.0.0(7,9)]nonane, 2,2,5,5,8,8-hexame</b> F2A61
	<b>Unknown Butylated Hydroxytoluene</b> SBLK98
	<b>Unknown 2,3-Butanedione</b> F2A41
	<b>Unknown 7-Oxabicyclo[4.1.0]heptane, 2,2,6-trimethyl-1-(3</b> F2A35
	<b>Unknown Eicosanoic acid, 2-(acetyloxy)-1-[(acetyloxy)met</b> F2A29
	<b>Unknown 2,5-Hexanedione</b> F2A59, F2B13, F2B21, SBLK98
	<b>Unknown 16-Hexadecanoyl hydrazide</b> F2A47
	<b>Unknown 1,2-Cyclobutanedicarboxylic acid, 1-cyano-, dime</b> SBLK98
	<b>Unknown Oxalic acid, monoamide, n-propyl, isoheptyl ester</b> F2A57
	<b>Unknown Tetradecanamide</b> F2A27
	<b>Unknown 3-Diethylaminomethyl-4-methoxy-benzaldehyde</b> F2A47
	<b>Unknown Hexadecanoic acid, 2-(acetyloxy)-1-[(acetyloxy)m</b> F2A47
	<b>Unknown 9-Octadecenamide, (Z)-</b> F2A31, F2A37, F2A41
	<b>Unknown Methisazone</b> F2A51
	<b>Unknown 2,6-Bis(4-nitro-phenylthio)pyridine</b> F2A53
	<b>Unknown 1,1,3-Trimethyl-1-silacyclobutane</b> F2A35

**National Functional Guidelines Report #03**

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

***Data Review Reports***

TIC

TIC	BNA
	Unknown 3-Ethylideneisobenzofuranone F2A59
	Unknown 1H-Pyrrole-2,5-dione F2A21, F2A23, F2A25, F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A43, F2A47, F2A49, F2A51, F2A53, F2A55, F2A57, F2A59, F2A61, F2B13, F2B21, SBLK87, SBLK98
	Unknown 2-Pyrrolidinone F2A31
	Unknown 1-Aminocyclopentanecarboxylic acid, N-ethoxycarb F2A51
	Unknown 2-Butanone, 3-methyl- F2A35
	Unknown Dichloroacetic acid, 4-tetradecyl ester F2A47
	Unknown 7,7-Dimethyl-2,3-dioxobicyclo[2.2.1]heptane-1-ca F2A25, F2A27, F2A31, F2A35, F2A37, F2A41, F2A57, F2B21
	Unknown 3-Hexene-2,5-dione F2A31, F2A41, F2A47, F2A51, F2B21
	Unknown 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-dien F2A43, F2A47, F2A49
	Unknown 2(5H)-Furanone, 3,5,5-trimethyl- F2A27, F2A49, F2A57
	Unknown N-(3-Methylbutyl)acetamide F2A41
	Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.3.0.0(4, F2A51, F2B13
	Unknown Pentane, 3-ethyl-3-methyl- F2A59
	Unknown 5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofurazan F2A51
	Unknown Phthalic acid, monoethyl ester F2B13
	Unknown .beta.-Sitosterol F2A41
	Unknown 2H-Pyran-2-one, tetrahydro-6-pentyl- F2A27
	Unknown 16-Hentriacontanone F2A59
	Unknown Dodecanoic acid, 2-hydroxy-1-(hydroxymethyl)ethy F2A29, F2A31, F2A47
	Unknown Octadecanoic acid, 2-(acetoxy)-1-[(acetoxy)m F2A47
	Unknown Cyclohexanecarboxamide F2A59
	Unknown Isopentyloxyethyl acetate F2A41
	Unknown Octadecanoic acid, ethenyl ester F2A47
	Unknown 2H-Pyran-2-one, 6-heptyltetrahydro- F2A47
	Unknown 2,4-Diamino-1,3,5-triazine F2A25
	Unknown Phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,8a F2A49
	Unknown Eicosanoic acid, 2,3-bis(acetoxy)propyl ester F2A31, F2A47

**National Functional Guidelines Report #03**

Lab DATA(ALS Environmental) SDG F2A21 Case 43795 Contract EPW11037 Region 6 DDTID 183121 SOW SOM01.2

***Data Review Reports***

TIC

TIC	BNA
	<b>Unknown Pyrazinamide</b> F2A49, F2B21
	<b>Unknown Palmitic acid vinyl ester</b> F2A31, F2A53, F2A57
	<b>Unknown 10-Nonadecanone</b> F2B13, SBLK98
	<b>Unknown Phthalic anhydride</b> F2A29, F2A31, F2A43, F2A49, F2A51, F2A57, F2A59, F2B21, SBLK87, SBLK98
	<b>Unknown Oxalic acid, isobutyl octadecyl ester</b> SBLK98
	<b>Unknown Ethanone, 1-oxiranyl-</b> F2A57
	<b>Unknown 1,1,4a-Trimethyl-5,6-dimethylenedecahydronaphtha</b> F2A49, F2A51
	<b>Unknown 2(3H)-Furanone, 5-acetyl-2,3-dihydro-</b> F2A27, F2A29, SBLK87
	<b>Unknown D-Homoestra-1,3,5(10),15-tetraen-17a-one, 3-meth</b> F2A53
	<b>Unknown 2-Pentanone, 3-methyl-</b> F2A21, F2A23, F2A25, F2A27, F2A29, F2A31, F2A35, F2A37, F2A41, F2A49, F2A51, F2A53, F2A55, F2A57, F2A59, F2A61, F2B13, SBLK98
	<b>Unknown Hexane, 1,1'-oxybis-</b> F2A47
	<b>Unknown 23,28-Bisnor-17.beta.(H)-hopane</b> F2A27
	<b>Unknown 4-Methyl-4-(tetrahydropyran-2-yl)oxygenpentane-2,3-</b> F2A37
	<b>Unknown Hexadecanal, 2-methyl-</b> F2B21
	<b>Unknown 1-Naphthalenemethanamine, .alpha.-methyl-, (R)-</b> SBLK87
	<b>Unknown 2-Cyclohexen-1-one, oxime, (1E)-</b> F2A31, F2A37